## **INDEX**

```
adjust fire, 5-1, 5-4, 5-5
adjustment, type of, 2-24 (table), 5-3
ammunition, 2-2
   amount, 2-21
   lots, 2-3
   types of 2-21, 5-3
   quick smoke, 9-12
angle T, 4-10 (illus)
attack, method of, 2-19, 2-24 (table)
attack, size of, 2-20
Ballistic Met Message, DA Form 3675, 4-19 (illus), 4-23
      computation, 4-23
      receipt of, 4-18
      recording, 4-23
      reregistration, 4-35
      use of, 4-17
ballistics, 2-1, 2-10
   battle area fire, 2-15
   exterior, 2-1, 2-5
   interior, 2-2
below pivot-point method without range arms, 12-1
call for fire, 5-1
   authentication, 5-6
   format, 5-5
   quick smoke, 9-12
certification, fire direction center, A-1, D-1
collective training, A-2
computer MET message, 4-31.1
Computer's Record, DA Form 2399, 4-3 (illus), 8-12 (illus), 8-13 (illus), 14-2, 14-3 (illus)
coordinated missions, firing of, 14-1
crest clearance, B-2
crosswind, 4-27
DA Form 2188-R, Data Sheet, 4-7, 4-8 (illus)
DA Form 2399, Computer's Record, 4-3 (illus)
DA Form 2601-1, MET Data Correction Sheet for Mortars, 4-23, 4-25 (illus)
DA Form 2601-2-R, MET Data Correction Sheet 6400 Mils (Mortars), 4-32 (illus), 4-34 (illus)
DA Form 3675, Ballistic MET Message, 4-19 (illus) (See Also Ballistic MET Message)
DA Form 5424-R, Terrain Mortar Position/ Special Corrections Worksheet, E-10, E-11 (illus)
DA Form 5472-R, Computer's Record (MPI), 14-14, 14-15 (illus)
Data Sheet, DA Form 2188-R, 4-8 (illus)
Defensive Operations, Support of, 2-14
deflection conversion table, 8-18 (illus), 12-22, 12-23 (illus), 14-3 (illus)
      applying firing corrections, 14-9
      determining firing corrections, 14-5
```

```
determining range difference, 14-6
      direction, 2-1
      example, 12-23
      obtaining firing corrections, 14-4
      reregistration, 14-9
      targets, 2-2 (illus)
deflection corrections, 14-7, 14-9
disks
   azimuth, 11-4
   rotating, 2-1, 2-4
dispersion and probability, 2-10
distance table, C-8 (table)
distribution of bursts, 2-1
digital message device
   application, 10-1
   communications, 10-1
   transmitting message, 10-2
   transmitting shot/splash, 10-2
doctrine, I-1
engagement, method of, 5-1, 5-3, 5-5
equipment, fire control
   preparation of, 7-1, 12-1
estimation technique, E-1
evaluation
   commanders, A-1
   external, A-2
   individual, A-1
examination
   forward observer, A-2
   gunner, A-1
field-expedient survey techniques
   graphic resection, C-1
   hasty survey, C-4
final protective fire, 2-12, 2-15, 9-7, 14-20
   size and mortar type, 9-8 (table)
   symbol, 2-12 (illus)
fire and control, methods of, 5-3
   equipment, 7-1
fire control, technical, 8-9
fire direction center
   certification, A-1, D-1
   order, 9-14 (illus)
   organization, 3-1
   personnel duties, 3-2
   qualification, D-1
fire direction
   equipment, E-1
   principles of, 3-1
```

```
fire for effect, 5-1
fire planning, 2-10
fire, rates of, 2-20 (table)
fire support coordination measures, 2-15
fire support plan,
   battalion, 2-18
   company, 2-16
fire, type of, 2-24 (table)
firing data, 2-1, E-13
firing tables, 2-7, 2-8 (illus), 4-27 (illus), 4-28 (illus), 4-29 (illus)
   standard range, 2-9
   unit corrections, 2-8
fundamentals, 2-1
fuzes, types of, 2-21
graphic resection, C-1
grid mission, 8-1, 12-24, 14-18
gun-target azimuth chart, 8-14 (table)
hasty survey, C-4
hasty terrain positions, G-11
hasty traverse technique, G-2
illumination, 2-21, 8-22, 13-13
   coordinated, 8-25
   types of, 8-12
immediate suppression or immediate smoke, 5-2, 9-10
indirect fire team, 1-2, 1-3 (illus)
individual training, A- I
long-range fire, 2-14
maximum rate of fire, 2-20 (table)
mean point of impact,
   dispersion pattern, 2-9
message to observer, 5-5
MET Data Correction Sheet 6400 Mils (Mortars), DA Form 2601-2-R, 4-33 (illus), 4-34 (illus)
MET Data Correction Sheet for Mortars, DA Form 2601-1, 4-23, 4-25 (illus)
meteorological (MET) corrections, 4-35
MET message (See Ballistic MET Message)
mil conversion table, E-13 (table)
missions, types of, 8-1
   grid, 12-24, 8-1
   illumination, 13-13
   noncoordinated missions, firing of, 14-1
   polar, 12-25, 8-7
   searching and zone fire, 13-6
   shift, 12-24, 8-5
   traversing fire, 13-1
modified-observed firing chart, 12-14
```

```
mortar ballistic computer, 7-1 (illus)
   audio alarm, 6-7
   capabilities, 6-8
   data entry, types of, 7-7
   description, 6-1
      action switches, 6-3, 6-4 (illus)
      alphanumeric and minus sign keys, 6-4 (illus)
      display switches, 6-6 (illus)
      fire mission switches, 6-5 (illus)
      initialization switches, 6-1, 6-3 (illus)
      LED indicators, 6-7 (illus)
      output switches, 6-6 (illus)
      switch panel, 7-1
      tests, D-3
   digital message device, 10-1
      error messages, 6-9
mortar positions, 1-3
   initialization, 7-5
   memory storage, 6-9
   plotting of, 12-10 (illus), 12-11 (illus)
      at pivot point, 12-1, 12-11, 12-14
      below pivot point, 12-14
   parallel-line plotting, 12-11, 12-12 (illus)
   special keys and functions, 9-16
muzzle velocity, 2-3
   nonstandard, 2-3
   standard, 2-3
noncoordinated missions, firing of, 14-1
observed firing charts
   below pivot-point method, 12-9
   pivot-point method without use of range arms, 12-1
offensive operations, support of, 2-14
offensive unit training, A-2
organization, 1-1
pattern of bursts, 2-1
   dispersion, 2-9
   random, 2-3
   regular, 2-3
piece displacement, E-2 (illus)
   estimation technique, E-1
   hasty traverse technique, E-2
   pacing technique, E-1
pivot-point method without use of range arms, 12-1
plotting boards
   capabilities, 11-4
```

```
care and cleaning, 12-14
   certification, D-1
   field-expedient method of construction, 12-17
   M16, E-2, E-3, 11-1, 11-2 (illus)
   M19, E-1, E-3, 11-3 (illus)
   observer corrections, 12-5, 12-6 (illus)
   preparation, 12-1, 12-2 (illus)
polar mission, 12-25, 14-18
probable error, 2-3
projectile, 2-27 (illus)
quick smoke, 9-12, 9-13 (chart)
range corrections, 4-30
range correction factor, 14-6, 14-9, 14-14, 14-15
range wind, 4-27
registration, 14-1, B-4
   coordinated, 9-1, 14-1
   mean point of impact, 9-3, 14-12
   radar, 9-5, 14-18
   surveyed, plotting of, 14-2 (table)
   uncoordinated, 9-1
   updated corrections, 4-37 (illus), 14-16
reregistration, 4-35, 14-9
safety diagram, B-5, B-6 (illus)
safety procedures
   diagram, B-4, B-5 (illus)
   safety T, B-6
   surface danger zones, B-1, B-2 (illus)
safety T, B-6
searching fire, 8-19, 13-8
sheaves, types of, 4-1, 8-10
   adjustment, 9-1, 14-1
   analysis, 2-19
   considerations, 2-13
   description, 2-17 (table)
   registration, 2-19, 9-1
   typical, 2-24 (table)
shift mission, 12-24, 14-18
suppression, 2-19
target list, 2-17 (table)
targets, 2-24
   description, 2-2, 2-19, 5-2
   locations, 5-2
   plotting, 12-17
   series of, 2-11, 2-12 (illus)
```

```
transfer of, 12-19
   types of, 2-22, 2-24 (illus)
terrain mortar positioning, 2-1, E-1
   application to firing data, E-12
   hasty terrain positions, E-13
   modified technique, E-14
   piece displacement, E-1, E-4
   plotting board, M16/M19, E-2
   transfer limits, E-8, G-6 (illus)
Terrain Mortar Position/Special Corrections Worksheet, DA Form 5424-R, E-2 (illus)
training
   collective, A-2
   evaluation, A-1
   individual, A-1
   strategy, A-1
   unit, A-1
training program integration, 1-2
training strategy mortar, A-1
   integrated, A-5
trajectory, elements of, 2-6
   elements, 2-6 (illlus)
   probable error, 2-3
traversing fire, 8-11, 13-1
type of mission
   adjust fire, 5-1
   fire for effect, 5-1
   immediate suppressive/immediate smoke, 5-2
   suppression, 5-2
velocity trends, 2-3
   dispersion, 2-3
vertical interval, 2-1, B-2
vertical interval correction factors
   correction for, 14-17
   determination of, 14-17, 14-18
warning order, 5-1
   target locations, 5-2
   type of mission, 5-2
zone
   surface danger, B-1
zone fire, 8-19, 13-8, 13-11
   100 meters, 8-21 (illus)
   200-meters, 8-22 (illus)
```